1 1. (Amended) A packet radio system comprising: 2 a digital mobile communication network; 3 packet data terminal equipments; 4 packet radio support nodes connected to the mobile communication network 5 which provides them with a radio interface for packet switched data transmission with the 6 packet data terminal equipments; 7 gateway packet radio support nodes providing an access point to an external 8 packet data network; 9 an internal packet switched backbone network to which the packet radio support

nodes and the gateway packet radio support nodes are connected; and

a billing gateway support node, connected to said internal backbone network to

receive user-specific charging information collected by the other support nodes and to

forward the charging information to the charging system.

(Amended) The packet radio system as claimed in claim 1, wherein the
communication protocol between the billing gateway support node, the packet radio
support nodes and the gateway packet radio support nodes is a packet switched
communication protocol of said internal backbone network.

1

2

3

4

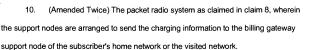
1 3. (Amended Twice) The packet radio system as claimed in claim 1, wherein
2 the communication protocol between the billing gateway support node, the packet radio
3 support nodes and the gateway packet radio support nodes is independent of a
4 communication protocol between the gateway support node and the charging system.

14

Page 2 ALG 781.46USWO Office Action Response

- Land .
- 1 4. (Amended Twice) The packet radio system as claimed in claim 1, wherein.
- 2 the communication protocol between the billing gateway support node and the charging
- 3 system is different from a packet switched communication protocol of said internal
- 4 backbone network.
- 1 5. (Amended Twice) The packet radio system as claimed in claim 1, wherein
- 2 the billing gateway support node is provided with a direct connection to the billing system.
- 1 6. (Amended Twice) The packet radio system as claimed in claim 1, wherein
- 2 the billing gateway support node is connected to the billing system via an intermediate
- 3 network, such as an intelligent network, or via an intermediate network element, such as
- 4 a mobile services switching center.
- 1 7. (Amended Twice) The packet radio system as claimed in claim 1,
- 2 wherein the address of the billing gateway support node to which the other support
- 3 nodes send charging information is fixed.
- 1 8. (Amended Twice) The packet radio system as claimed in claim 1, wherein
- 2 the address of the billing gateway support node to which the other support nodes send
- 3 charging information is dynamic.
- 1 9. (Amended) The packet radio system as claimed in claim 8, wherein the
- 2 address of the billing gateway support node to which the other support nodes send
- 3 charging information is subscriber-specific and is given to the respective other support
- 4 node when the subscriber begins using a service.

Page 3 ALG 781.46USWO Office Action Response



1 11 (Amended) The packet radio system as claimed in claim 2, wherein the 2 communication protocol between the billing gateway support node, the packet radio support nodes and the gateway packet radio support nodes is independent of a 4 communication protocol between the gateway support node and the charging system.

1

2

3

1

4

12. (Amended) The packet radio system as claimed in claim 2, wherein the 2 communication protocol between the billing gateway support node and the charging 3 system is different from a packet switched communication protocol of said internal backbone network.

1 13. (Amended) The packet radio system as claimed in claim 3, wherein the 2 communication protocol between the billing gateway support node and the charging 3 system is different from a packet switched communication protocol of said internal backbone network.